TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-05-05 Date: 10-05-2017
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE/DD/WO/47/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-05-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2444	2722	54.4	45.6	25-55
4	4.75 mm	2134	4856	97.1	2.9	0-10
5	Pan	144	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-05-05 Date: 10-05-2017

Sample ID No : 2017-05-05-05-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.67	-
4	Bulk Density(Loose) (Kg/l)	1.55	-
5	Bulk Density(Compacted) (Kg/l)	1.59	-
6	Water Absorption(%)	0.24	-
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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R. Karthik
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 10-05-17

Lab ID	:	CP-2017-05-05-05
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/47/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-05-17
Sample ID No	:	2017-05-05-05-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	150	235	23.5	76.5	60-95	75-100	85-100	95-100
4	1.18 mm	178	413	41.3	58.7	30-70	55-90	75-100	90-100
5	600 micron	189	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	188	790	79	21.0	5-20	8-30	12-40	15-50
7	150 micron	120	910	91	9.0	0-10	0-10	0-10	0-15
8	Pan	90	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-05-05 Date: 10-05-17

Sample ID No : 2017-05-05-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.95	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-06-16-04

Date: 19-06-17

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/47/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-06-17

Sample ID No : 2017-06-16-04-01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RCC	M20	12/06/2017	19/06/2017	150.22 X 150.18 X 150.17	22560	8.330	399.3	17.7	17.5
2	RCC	M20	12/06/2017	19/06/2017	150.10 X 150.12 X 150.14	22533	8.234	387.6	17.2	
3	RCC	M20	12/06/2017	19/06/2017	150.18 X 150.19 X 150.22	22556	8.289	394.7	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-06-16-04 Date: 10-07-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/47/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-06-17
Sample ID No	:	2017-06-16-04-02
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/06/2017	10/07/2017	150.16 X 150.18 X 150.17	22551	8.280	399.2	17.7	17.5
2	RCC	M20	12/06/2017	10/07/2017	150.10 X 150.18 X 150.14	22542	8.265	387.7	17.2	
3	RCC	M20	12/06/2017	10/07/2017	150.18 X 150.19 X 150.20	22556	8.290	394.7	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-06-12-06

Date: 14-06-17

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/47/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-17

Sample ID No : 2017-06-12-06-01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	07/06/2017	14/06/2017	150.22 X 150.24 X 150.21	22569	8.323	395.0	17.5	17.6
2	RCC	M20	07/06/2017	14/06/2017	150.19 X 150.15 X 150.19	22551	8.269	390.1	17.3	
3	RCC	M20	07/06/2017	14/06/2017	150.22 X 150.28 X 150.21	22575	8.344	404.1	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-06-12-06 Date: 05-07-17
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and culverts work in ward no.13 shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/47/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-06-02
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	07/06/2017	05/07/2017	150.22 X 150.20 X 150.19	22563	8.289	530.2	23.5	23.3
2	RCC	M20	07/06/2017	05/07/2017	150.24 X 150.25 X 150.20	22574	8.368	516.9	22.9	
3	RCC	M20	07/06/2017	05/07/2017	150.25 X 150.27 X 150.22	22578	8.357	528.3	23.4	

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